

# Concrete Block and Brick Manufacturing: 2002

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## 2002 Economic Census

*Manufacturing*

Industry Series



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U.S. Department of Commerce  
Economics and Statistics Administration  
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-- Not applicable for this report.

# Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year <sup>1</sup>	Com- panies <sup>2</sup>	All estab- lish- ments <sup>3</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)	
			Number <sup>4</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)					
327331, Concrete block and brick manufacturing .....	2002..	634	903	19 828	754 490	12 682	27 156	422 432	2 202 844	1 828 435	3 999 617	214 305
	2001..	N	N	21 616	761 831	13 960	31 145	431 121	2 029 043	1 892 867	3 931 051	151 518
	2000..	N	N	22 556	785 470	14 170	31 734	450 833	2 146 596	1 949 286	4 043 911	215 668
	1999..	N	N	22 653	749 140	14 206	31 904	429 368	2 057 071	1 938 501	3 974 234	188 952
	1998..	N	N	19 602	636 918	12 486	26 451	344 081	1 751 508	1 696 743	3 454 680	178 335
	1997..	708	931	18 079	559 417	11 202	23 738	292 938	1 463 652	1 407 165	2 844 076	149 684

<sup>1</sup>Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

<sup>2</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>3</sup>Includes establishments with payroll at any time during the year.

<sup>4</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 2. Industry Statistics for Selected States: 2002**

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)				
<b>327331, Concrete block and brick manufacturing</b>												
United States .....	2	903	349	19 828	754 490	12 682	27 156	422 432	2 202 844	1 828 435	3 999 617	214 305
Arizona .....	1	30	16	755	26 262	527	1 073	14 624	96 798	89 065	183 825	7 309
Arkansas .....	—	15	5	304	8 202	176	305	3 522	24 712	16 947	38 625	4 562
California .....	3	45	22	1 303	52 719	876	1 955	32 162	132 853	119 974	251 066	11 504
Connecticut .....	3	6	2	106	4 057	58	103	1 724	8 921	10 035	18 804	856
Florida .....	—	79	30	1 811	72 338	1 300	2 917	46 765	261 435	175 554	434 936	17 920
Georgia .....	1	29	8	647	23 219	472	1 001	15 254	44 209	35 706	78 979	6 365
Illinois .....	2	32	15	821	36 581	506	1 092	18 855	115 619	77 193	191 437	7 571
Indiana .....	—	21	7	358	14 984	157	358	6 002	42 780	36 972	78 373	3 066
Kentucky .....	—	18	8	306	8 008	167	349	4 196	28 547	27 036	54 359	2 149
Michigan .....	1	38	14	775	33 108	518	1 165	19 457	91 353	64 472	155 435	14 056
Missouri .....	1	22	10	489	17 824	224	488	7 349	45 366	48 589	91 521	5 487
New Jersey .....	3	21	12	1 150	49 990	709	1 559	23 118	134 255	84 803	217 252	12 499
New York .....	2	45	17	870	31 426	558	1 118	17 912	111 093	78 459	185 847	9 867
Ohio .....	1	45	21	1 007	36 086	614	1 287	20 393	110 706	92 908	202 739	14 683
Oklahoma .....	4	11	3	140	4 338	108	193	2 850	9 994	8 634	17 335	932
Pennsylvania .....	3	60	19	1 431	47 622	933	2 026	28 542	138 575	125 700	261 136	17 943
Tennessee .....	1	32	11	522	19 224	314	617	8 951	54 010	42 170	94 407	7 563
Texas .....	2	37	22	1 070	35 888	702	1 553	19 887	96 919	119 488	218 622	10 558
Virginia .....	3	24	7	381	13 343	232	486	7 067	54 976	43 334	96 860	4 943
Wisconsin .....	3	22	8	477	18 503	311	636	9 693	53 962	35 576	88 312	3 255

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

# Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
327331, Concrete block and brick manufacturing	
Companies <sup>1</sup> .....	number.. 634
All establishments <sup>2</sup> .....	number.. 903
Establishments with 1 to 19 employees .....	number.. 554
Establishments with 20 to 99 employees .....	number.. 331
Establishments with 100 employees or more .....	number.. 18
All employees <sup>3</sup> .....	number.. 19 828
Total compensation .....	\$1,000.. 929 636
Annual payroll .....	\$1,000.. 754 490
Total fringe benefits .....	\$1,000.. 175 146
Production workers, average for year .....	number.. 12 682
Production workers on March 12 .....	number.. 12 220
Production workers on May 12 .....	number.. 12 804
Production workers on August 12 .....	number.. 12 926
Production workers on November 12 .....	number.. 12 637
Production worker hours .....	1,000.. 27 156
Production worker wages .....	\$1,000.. 422 432
Total cost of materials .....	\$1,000.. 1 828 435
Materials, parts, containers, packaging, etc., used .....	\$1,000.. 1 276 626
Resales .....	\$1,000.. 475 642
Purchased fuels .....	\$1,000.. 23 991
Purchased electricity .....	\$1,000.. 35 154
Contract work .....	\$1,000.. 17 022
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 514 231
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. D
Total value of shipments .....	\$1,000.. 3 999 617
Primary products value of shipments .....	\$1,000.. 3 090 859
Secondary products value of shipments .....	\$1,000.. 235 177
Total miscellaneous receipts .....	\$1,000.. 673 581
Value of resales .....	\$1,000.. 644 175
Contract receipts .....	\$1,000.. 18 772
Other miscellaneous receipts .....	\$1,000.. 10 634
Primary products specialization ratio .....	percent.. 93
Value of primary products shipments made in all industries .....	\$1,000.. 3 335 852
Value of primary products shipments made in this industry .....	\$1,000.. 3 090 859
Value of primary products shipments made in other industries .....	\$1,000.. 244 993
Coverage ratio .....	percent.. 93
Value added .....	\$1,000.. 2 202 844
Total inventories, beginning of year .....	\$1,000.. 454 234
Finished goods inventories .....	\$1,000.. 380 367
Work-in-process inventories .....	\$1,000.. 9 939
Materials and supplies inventories .....	\$1,000.. 63 928
Total inventories, end of year .....	\$1,000.. 489 054
Finished goods inventories .....	\$1,000.. 410 921
Work-in-process inventories .....	\$1,000.. 11 047
Materials and supplies inventories .....	\$1,000.. 67 086
Gross value of depreciable assets (acquisition costs) at beginning of year .....	\$1,000.. 2 178 715
Total capital expenditures (new and used) .....	\$1,000.. 214 305
Buildings and other structures (new and used) .....	\$1,000.. 49 624
Machinery and equipment (new and used) .....	\$1,000.. 164 681
Automobiles, trucks, etc., for highway use .....	\$1,000.. 31 462
Computers and peripheral data processing equipment .....	\$1,000.. 12 966
All other expenditures for machinery and equipment .....	\$1,000.. 120 253
Total retirements .....	\$1,000.. 105 928
Gross value of depreciable assets at end of year .....	\$1,000.. 2 287 092
Depreciation charges during year .....	\$1,000.. 183 674
Total rental payments .....	\$1,000.. 60 299
Buildings and other structures .....	\$1,000.. 28 936
Machinery and equipment .....	\$1,000.. 31 363
Total other expenses <sup>4</sup> .....	\$1,000.. 314 183
Response coverage ratio <sup>5</sup> .....	percent.. 73
Repair and maintenance services of buildings and/or machinery <sup>4</sup> .....	\$1,000.. 64 660
Communications services <sup>4</sup> .....	\$1,000.. 7 400
Legal services <sup>4</sup> .....	\$1,000.. 3 256
Accounting, auditing, and bookkeeping services <sup>4</sup> .....	\$1,000.. 3 349
Advertising and promotional services <sup>4</sup> .....	\$1,000.. 16 600
Expensed computer hardware and supplies and purchased computer services <sup>4</sup> .....	\$1,000.. 2 884
Refuse removal (including hazardous waste) services <sup>4</sup> .....	\$1,000.. 3 798
Management consulting and administrative services <sup>4</sup> .....	\$1,000.. 7 072
Taxes and license fees <sup>4</sup> .....	\$1,000.. 13 767
All other expenses <sup>4</sup> .....	\$1,000.. 191 395

<sup>1</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

<sup>4</sup>Based on Annual Survey of Manufactures (ASM) sample data.

<sup>5</sup>A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 4. Industry Statistics by Employment Size: 2002**

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E <sup>1</sup>	All establishments <sup>2</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)				
327331, Concrete block and brick manufacturing											
All establishments .....	2	903	19 828	754 490	12 682	27 156	422 432	2 202 844	1 828 435	3 999 617	214 305
Establishments with—											
1 to 4 employees .....	8	192	413	14 415	281	535	8 245	38 264	30 892	68 265	5 026
5 to 9 employees .....	3	119	811	29 968	515	1 108	17 347	85 922	75 355	160 098	11 822
10 to 19 employees .....	1	243	3 419	123 952	2 139	4 574	71 131	396 026	331 498	721 138	36 361
20 to 49 employees .....	1	253	7 581	286 584	4 772	10 242	159 621	855 272	741 097	1 582 347	94 877
50 to 99 employees .....	1	78	5 288	205 154	3 381	7 153	109 133	595 897	456 310	1 043 238	51 380
100 to 249 employees .....	2	18	2 316	94 417	1 594	3 544	56 955	231 463	193 283	424 531	14 839
250 to 499 employees .....	—	—	—	—	—	—	—	—	—	—	—
500 to 999 employees .....	—	—	—	—	—	—	—	—	—	—	—
1,000 to 2,499 employees .....	—	—	—	—	—	—	—	—	—	—	—
2,500 employees or more .....	—	—	—	—	—	—	—	—	—	—	—
Administrative records <sup>4</sup> .....	9	188	544	19 779	363	731	11 202	49 261	42 156	91 416	5 361

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

<sup>4</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 5. Industry Statistics by Primary Product Class Specialization: 2002**

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments <sup>1</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Hours (1,000)	Wages (\$1,000)				
327331	Concrete block and brick manufacturing .....	903	19 828	754 490	12 682	27 156	422 432	2 202 844	1 828 435	3 999 617	214 305
3273310	Concrete block and brick .....	903	19 828	754 490	12 682	27 156	422 432	2 202 844	1 828 435	3 999 617	214 305

<sup>1</sup>Includes establishments with payroll at any time during the year.

<sup>2</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. **Products Statistics: 2002 and 1997**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
327331	Concrete block and brick manufacturing .....	2002.. N	X	X	3 335 852
	..... 1997.. N		X	X	2 392 435
3273310	Concrete block and brick .....	2002.. N	X	X	3 335 852
	..... 1997.. N		X	X	2 392 435
32733101	Structural block, lightweight units (units made with concrete weighing less than 105 lb per cubic foot) (dry weight) .....	2002.. N	X	X	657 801
	..... 1997.. N		X	X	604 799
3273310111	Structural block, lightweight units (units made with concrete weighing less than 105 lb per cubic foot) (dry weight) ..... mil blocks .....	2002.. 209	X	S	657 801
	..... 1997.. 271		X	S	604 799
32733102	Structural block, mediumweight units (units made with concrete weighing at least 105 lb but less than 125 lb per cubic foot) (dry weight) .....	2002.. N	X	X	266 181
	..... 1997.. N		X	X	232 842
3273310211	Structural block, mediumweight units (units made with concrete weighing at least 105 lb but less than 125 lb per cubic foot) (dry weight) ..... mil blocks .....	2002.. 82	X	S	266 181
	..... 1997.. 117		X	S	232 842
32733103	Structural block, normalweight units (units made with concrete weighing at least 125 lb per cubic foot) (dry weight) .....	2002.. N	X	X	617 092
	..... 1997.. N		X	X	602 577
3273310311	Structural block, normalweight units (units made with concrete weighing at least 125 lb per cubic foot) (dry weight) ..... mil blocks .....	2002.. 248	X	S	617 092
	..... 1997.. 312		X	S	602 577
32733104	Decorative block (including screen block, split block, slump block, shadowal block, etc.) .....	2002.. N	X	X	455 361
	..... 1997.. N		X	X	213 616
3273310411	Decorative block (including screen block, split block, slump block, shadowal block, etc.) .....	2002.. 174	X	X	455 361
	..... 1997.. 158		X	X	213 616
32733105	Concrete pavers (including grid, interlocking, etc.) .....	2002.. N	X	X	436 924
	..... 1997.. N		X	X	170 621
3273310511	Concrete pavers (including grid, interlocking, etc.) .....	2002.. 96	X	X	436 924
	..... 1997.. 83		X	X	170 621
32733106	Concrete brick .....	2002.. N	X	X	118 900
	..... 1997.. N		X	X	110 609
3273310611	Concrete brick .....	2002.. 56	X	X	118 900
	..... 1997.. 72		X	X	110 609
3273310Y	Concrete block and brick, nsk, total .....	2002.. N	X	X	783 593
	..... 1997.. N		X	X	457 371
3273310YWW	Concrete block and brick, nsk, for nonadministrative-record establishments .....	2002.. N	X	X	704 164
	..... 1997.. N		X	X	400 519
3273310YWY	Concrete block and brick, nsk, for administrative-record establishments .....	2002.. N	X	X	79 429
	..... 1997.. N		X	X	56 852

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.



Table 6b. **Product Class Shipments for Selected States: 2002 and 1997**

[Not applicable for this report.]

**Table 7. Materials Consumed by Kind: 2002 and 1997**

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
327331	Concrete block and brick manufacturing		
00900001	Total materials .....2002..	X	1 276 626
	.....1997..	X	950 083
32731005	Portland and blended cements .....2002..	X	305 162
	.....1997..	X	N
32732000	Ready-mixed concrete .....2002..	X	13 071
	.....1997..	X	26 116
32700012	Other stone, clay, glass, and concrete products (excluding portland and blended cements and ready-mixed concrete) .....2002..	X	67 142
	.....1997..	X	N
21231003	Crushed and broken stone (including cement rock, limestone, etc.) .....2002..	X	97 059
	.....1997..	X	57 410
21232002	Sand and gravel .....2002..	X	166 144
	.....1997..	X	N
21230007	Other mining and quarrying of nonmetallic minerals (excluding fuels) .....2002..	X	38 067
	.....1997..	X	25 219
33120053	Steel wire strand, bars, and rods, high strength, stress relieved .....2002..	X	1 426
	.....1997..	X	2 342
33120093	Welded steel wire concrete reinforcing mesh .....2002..	X	1 559
	.....1997..	X	1 565
33120009	Steel concrete reinforcing bars .....2002..	X	1 329
	.....1997..	X	763
33120055	Other steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	6 244
	.....1997..	X	2 722
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	5 094
	.....1997..	X	1 262
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	182 375
	.....1997..	X	N
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	391 954
	.....1997..	X	299 240

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.